

AMENDMENT TO THE SPECIFICATION

IN THE SPECIFICATION:

On page 2, please **replace the paragraph** the following **amended paragraph**:

The term "part channels" also includes division of the feed stream into part streams by built-in microstructure parts just before the outflow of said feed stream into the mixing zone. The dimensions, particularly the lengths and widths of these built-in parts, can be in the range of millimeters or preferably smaller than 1 mm. The part channels are preferably shortened to the length that is absolutely needed for flow control and, hence, for a certain throughput they require relatively low pressures. The part channels preferably do not intersect. The length-to-width ratio of the part channels is preferably in the range from 1:1 to 20:1, particularly from 8:1 to 12:1, and most preferably about 10:1. The built-in microstructure parts are preferably configured in such a way that the flow rate velocity of the feed stream at the outlet into the mixing zone is greater than at the inlet into the linking channel and preferably also greater than the flow rate velocity of the product stream through the mixing zone.

On page 5, please **replace the paragraph** the following **amended paragraph**:

The object of the invention is also an in-situ process for producing formulations consisting of at least two, preferably fluid, constituents just before use. At least two preferably fluid feeding streams that at first are kept separated are mixed with one another, the mixing being performed by use of at least one of the afore-described components of the invention, the static micromixer or packaging systems. Here, the flow rate velocity of the feeding stream or feeding streams into the mixing zone is greater than the flow rate velocity of the product mixture within the mixing zone. Particularly preferred are mixer configurations and flow rates velocities giving rise to turbulence in the mixing zone, the mixing in the mixing zone being induced at least in part by turbulence.